Storm Data and Unusual Weather Phenomena

August 2005

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

ATLANTIC OCEAN

ANZ532 **Chesapeake Bay Sandy Pt To N Beach Md**

4 SW Stevensville **05** **1535EST** **0** **0** **Marine Tstm Wind (MG43)**

Wind gust measured at Kent Island.

ANZ531 **Chesapeake Bay Pooles Is To Sandy Pt Md**

10 W Riviera Beach **05** **1819EST** **0** **0** **Marine Tstm Wind (MG43)**

Wind gust measured at Baltimore/Washington Airport.

ANZ532 **Chesapeake Bay Sandy Pt To N Beach Md**

4 SW Stevensville **05** **1910EST** **0** **0** **Marine Tstm Wind (MG35)**

Wind gust measured at Kent Island.

ANZ533 **Chesapeake Bay N Beach To Drum Pt Md**

Cove Pt **05** **2030EST** **0** **0** **Marine Tstm Wind (MG35)**

A weak cold front moved east from the Appalachian Mountains and interacted with the moist and unstable airmass that was already in place around the mid-Atlantic. This situation sparked off scattered thunderstorms during the afternoon and evening. A few of these thunderstorms reached severe criteria. The principal hazard associated with these storms was damaging wind gusts. Additionally, a few of the storms generated large hail.

ANZ533 **Chesapeake Bay N Beach To Drum Pt Md**

1 NE Cove Pt **07** **1030EST** **0** **0** **Marine Tstm Wind (MG39)**

Wind gust measured at Cambridge.

A weak frontal boundary remained stalled across the mid-Atlantic on August 7. Daytime heating conditions were sufficient to cause a few strong to severe thunderstorms to develop during the daylight hours. There were also a few reports of large hail in the higher terrain.

ANZ532 **Chesapeake Bay Sandy Pt To N Beach Md**

Tilghman Island **08** **1932EST** **0** **0** **Waterspout**
1940EST

The Coast Guard reported a waterspout near Bloody Point. The waterspout lasted for about eight minutes.

For the fourth day in a row, a stalled frontal boundary helped to produce scattered afternoon thunderstorms in the mid-Atlantic. In addition, the level of moisture in the atmosphere on this day was quite high, and allowed a few thunderstorms to produce torrential rainfall amounts, and some reports of flooding. There were also a few thunderstorms that reached severe limits, primarily causing some thunderstorm wind damage reports. Finally, partially due to a turning of the winds just above the surface of the Earth, there was a report of a waterspout in the middle Chesapeake Bay. This waterspout was not reported to have come ashore.

ANZ531 **Chesapeake Bay Pooles Is To Sandy Pt Md**

2 N Millers Island to 5 N Millers Island **27** **0925EST** **0** **0** **Waterspout**
0935EST

This photo was taken from near Millers Island, Maryland. Photo courtesy Greg Witmyer.

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ATLANTIC OCEAN

The waterspout was associated with gusty showers moving through the area at the time. The waterspout formed near the entrance to Middle River in the Chesapeake Bay, and then moved north to near Carroll Island, before quickly dissipating. There were no reports that the waterspout moved onshore.

The weather pattern across the mid-Atlantic was fairly complex on August 27. Hurricane Katrina had not yet come ashore in the Gulf Coast area, however the larger wind circulations from the hurricane were causing warm and moist southerly winds to impact the mid-Atlantic. This flow pattern allowed a few thunderstorms to develop and cause torrential rainfall and a few reports of flooding. In addition, the wind flow just above the ground was such that a persistent waterspout formed near Baltimore in the Chesapeake Bay. There may have been other waterspouts form, however there were no additional reports of waterspouts received at the National Weather Service office in Sterling.

MARYLAND, Central

Anne Arundel County

Greenock	**05**	**1900EST**	**0**	**0**		**5K**		**Thunderstorm Wind (EG50)**

Trees and powerlines downed.

Charles County

Pomfret	**05**	**1900EST**	**0**	**0**		**3K**		**Thunderstorm Wind (EG50)**

Trees downed at Billingsly and Bensville Roads.

A weak cold front moved east from the Appalachian Mountains, and interacted with the moist and unstable airmass that was already in place around the mid-Atlantic. This situation sparked off scattered thunderstorms during the afternoon and evening. A few of these thunderstorms reached severe criteria. The principal hazard associated with these storms was damaging wind gusts. Additionally, a few of the storms generated large hail.

Allegany County

Oldtown	**07**	**1605EST** **1609EST**	**0**	**0**				**Hail(1.75)**

Hail reported from the Coco Road area.

Allegany County

Oldtown	**07**	**1610EST**	**0**	**0**		**2K**		**Thunderstorm Wind (EG50)**

Several trees down along Coco Road.

A weak frontal boundary remained stalled across the mid-Atlantic on August 7. Daytime heating conditions were sufficient to cause a few strong to severe thunderstorms to develop during the daylight hours. There were also a few reports of large hail in the higher terrain.

Baltimore County

Jacksonville	**08**	**1425EST**	**0**	**0**		**4K**		**Thunderstorm Wind (EG50)**

Trees and powerlines downed.

Howard County

Columbia	**08**	**1800EST**	**0**	**0**		**3K**		**Thunderstorm Wind (EG50)**

Trees down.

Howard County

West Friendship	**08**	**1806EST**	**0**	**0**		**3K**		**Thunderstorm Wind (EG50)**

Trees downed.

For the fourth day in a row, a stalled frontal boundary helped to produce scattered afternoon thunderstorms in the mid-Atlantic. In addition, the level of moisture in the atmosphere on this day was quite high, and allowed a few thunderstorms to produce torrential rainfall amounts, and some reports of flooding. There were also a few thunderstorms that reached severe limits, primarily causing some thunderstorm wind damage reports. Finally, in part due to a difference in winds just above the surface of the Earth, there was a report of a waterspout in the middle Chesapeake Bay. This waterspout was not reported to have come ashore.

MDZ017 **St. Mary'S**

	09	**0925EST** **1000EST**	**0**	**0**				**Flood**

Some streets were flooded in the town.

St. Mary'S County

Leonardtown	**09**	**1000EST** **1200EST**	**0**	**0**		**100K**		**Flash Flood**

Water rushed and flooded several buildings at the College of Southern Maryland. There were reports from the college that at one time there was two feet of water rushing into the basements of the buildings. Many roads around the college were flooded. There were several car accidents due to the flooded roads, as well as several cars that stalled and had to be recovered with tow vehicles. In addition, flooded occurred at the government center in Leonardtown, mainly due to water leaking through the roof tiles.

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MARYLAND, Central

A very moist atmosphere was responsible for thunderstorms producing torrential rain and copious localized rainfall. There were a few instances of significant localized flooding problems.

Frederick County

Ceresville **27** **2000EST** **0** **0** **Heavy Rain**

One person was killed on Maryland Route 26, near Israel Creek, when their vehicle hit a utility pole during heavy rain. The road was closed for several hours while police attempted to get the body out of the car.

The weather pattern across the mid-Atlantic was fairly complex on August 27. Hurricane Katrina had not yet made landfall along the central Gulf Coast, however the larger wind circulations from the hurricane were causing warm and moist southerly winds to impact the mid-Atlantic. This flow pattern allowed a few thunderstorms to develop and caused torrential rainfall and a few reports of flooding. In addition, the wind flow just above the ground was such that a persistent waterspout formed near Baltimore in the Chesapeake Bay. There were no additional reports of waterspouts received at the National Weather Service office in Sterling.

Frederick County

1 W Brunswick to 2 N Brunswick **30** **2205EST 2208EST** **0** **0** **20K** **Thunderstorm Wind (EG60)**

A survey was performed by a National Weather Service meteorologist. The survey revealed roof shingle damage on several consecutive houses along East Mountain Road. A television antenna was damaged. A few trees were downed in the same location. A south to north grove of trees west of Route 17 also was damaged. The trees were bent to the west toward the Blue Ridge Mountains. This occurred a few miles to the north of Brunswick.

Frederick County

2 NW Middletown **30** **2220EST 2225EST** **0** **0** **5K** **Thunderstorm Wind (EG55)**

Several large trees were uprooted in a valley located near the end of Tabor Drive. Some trees were also damaged on Station Road a little further to the north.

Frederick County

1 NW Emmitsburg **30** **2305EST 2307EST** **0** **0** **5K** **Thunderstorm Wind (EG50)**

A few trees were downed on Tract Road just south of the Pennsylvania state border. There was also some tree damage on Cool Road.

VIRGINIA, North

Loudoun County

Purcellville **05** **1600EST** **0** **0** **5K** **Thunderstorm Wind (EG50)**

Trees and powerlines down in the Purcellville/Round Hill area.

Rappahannock County

Sperryville **05** **1722EST** **0** **0** **1K** **Thunderstorm Wind (EG50)**

Three foot tree downed.

Fauquier County

Cassanova **05** **1921EST** **0** **0** **3K** **Thunderstorm Wind (EG50)**

Tree limbs, powerlines, and one tree downed.

Spotsylvania County

Countywide **05** **2015EST 2020EST** **0** **0** **20K** **Thunderstorm Wind (EG50)**

Numerous trees down countywide.

King George County

Countywide **05** **2045EST 2048EST** **0** **0** **20K** **Thunderstorm Wind (EG50)**

Trees and powerlines downed countywide.

A weak cold front moved east from the Appalachian Mountains, and interacted with the moist and unstable airmass that was already in place around the mid-Atlantic. This situation sparked off scattered thunderstorms during the afternoon and evening. A few of these thunderstorms reached severe criteria. The principal hazard associated with these storms was damaging wind gusts. Additionally, a few of the storms generated large hail.

Albemarle County

Earlysville **06** **1734EST 1737EST** **0** **0** **9K** **Thunderstorm Wind (EG50)**

Numerous trees down along Route 29 in the north portion of the county.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
VIRGINIA, North									
Albemarle County									
Central Portion to (Cho)Charlottesville	**06**	**1735EST 1737EST**			**0**	**0**			**Hail(0.75)**
Dime sized hail was reported in Albemarle County.									
VAZ037	**Albemarle**								
	06	**1800EST 1830EST**			**0**	**0**			**Flood**
US Route 250 was closed for a short period of time due to standing water.									
Charlottesville (C)									
Charlottesville	**06**	**1805EST**			**0**	**0**	**3K**		**Thunderstorm Wind (EG50)**
Trees down on Park Street.									
Orange County									
3 NE Orange	**06**	**1908EST**			**0**	**0**	**1K**		**Thunderstorm Wind (EG50)**
Trees down across road.									
A frontal boundary was stalled across the mid-Atlantic, and interacted with the moist and unstable airmass already in place. Scattered thunderstorms developed during the afternoon due to the heating of the surface of the Earth. A few of these thunderstorms reached severe limits. In addition, some flooding conditions also occurred due to the heavy rainfall associated with the thunderstorms.									
Prince William County									
Gainesville	**08**	**2245EST 2315EST**			**0**	**0**			**Flash Flood**
Water was covering roads in Gainesville.									
For the fourth day in a row, a stalled frontal boundary helped to produce scattered afternoon thunderstorms in the mid-Atlantic. In addition, the level of moisture in the atmosphere on this day was quite high, and allowed a few thunderstorms to produce torrential rainfall amounts, and some reports of flooding. There were also a few thunderstorms that reached severe limits, primarily causing some thunderstorm wind damage reports. Finally, partially due to a turning of the winds just above the surface of the Earth, there was a report of a waterspout in the middle Chesapeake Bay. This waterspout was not reported to have come ashore.									
Albemarle County									
Countywide	**14**	**1702EST 1706EST**			**0**	**0**	**20K**		**Thunderstorm Wind (EG50)**
Trees down countywide.									
Charlottesville (C)									
Charlottesville	**14**	**1702EST 1704EST**			**0**	**0**	**10K**		**Thunderstorm Wind (EG50)**
Trees down in the city.									
Albemarle County									
Woodridge	**15**	**1745EST**			**0**	**0**	**1K**		**Thunderstorm Wind (EG50)**
Two trees down in the eastern portion of the county.									
Madison County									
Haywood	**30**	**1751EST 1752EST**	**0.5**	**50**	**0**	**0**	**10K**		**Tornado (F0)**
After a survey by National Weather Service meteorologists, evidence of a brief F0 tornado touchdown was found just east of Haywood near the intersection of Routes 609 and 602 in north-central Madison County. Damage was mainly to about a dozen trees, which were toppled or snapped. Some wires were also brought down.									
Albemarle County									
2 N White Hall to 1 W Doylesville	**30**	**1805EST 1807EST**	**1**	**100**	**0**	**0**	**500K**		**Tornado (F1)**

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

VIRGINIA, North

The National Weather Service surveyed wind damage in western Albemarle county near Doylesville. About 2 dozen large hardwood trees were topped or blown over on an estate off Via Lane (Route 672). The tornado touched down as the storm passed near the southeast part of Pasture Fence Mountain. The most intense tree damage (and a small portion of a fence) was along a small stream that ran through Crosscreek Farm. A resident of the farm observed the tornado, commenting on the large number of large, topped hardwood tree debris swirling overhead, up to an altitude upwards of 300 feet. The tornado lifted after it had crossed Via Lane after striking the farm. This tornado has been rated an F1 on the Fujita Scale. Of note, this storm may have produced a longer path tornado toward the White Hall area, but due to the rugged nature of the terrain, no further ground survey was conducted.

Culpeper County

3.5 W Rixeyville to 3 WNW Rixeyville	**30**	**1830EST 1832EST**	**0.5**	**75**	**0**	**0**	**5K**		**Tornado (F0)**

The National Weather Service surveyed wind damage in western Culpeper county just west of Eggbornsville. Mainly scattered F0 tree damage, a few topped and blown over small trees, was found on Routes 628 and 646, west of Eggbornsville. The tornado lifted after it crossed the Hazel River and before where it would have crossed Route 729. This tornado has been rated an F0 on the Fujita Scale. Of note, the storm that produced this tornado likely produced the F0 tornado further north in Rappahannock county about the same time.

Rappahannock County

Viewtown to 2 W Amissville	**30**	**1835EST 1850EST**	**4**	**75**	**0**	**0**	**50K**		**Tornado (F0)**

The National Weather Service surveyed wind damage in eastern Rappahannock County near Viewpoint, to just west of Amissville. A small tornado touched down initially near Routes 640 and 642 in Viewpoint, where metal roofing was peeled off a farm outbuilding, and a few small trees were knocked down. Along the path, mainly scattered F0 tree damage was found. The tornado crossed U.S. Route 211, about 2 miles west of Amissville before lifting near Jefferson Mountain. This tornado has been rated an F0 on the Fujita Scale.

Fauquier County

1.5 NE Orlean to 2 NNE Orlean	**30**	**1908EST 1910EST**	**0.8**	**75**	**0**	**0**	**50K**		**Tornado (F0)**

A National Weather Service meteorologist surveyed wind damage near Orlean in Fauquier County, Virginia. It was determined that a tornado touched down just northeast of Orlean. The tornado was on the ground for approximately 3/4 of a mile. This tornado downed several trees and uprooted a few trees. One tree fell on a building. This tornado has been rated an F0 on the Fujita Scale.

Fauquier County

1.5 S Ada to 2 W Marshall	**30**	**1917EST 1930EST**	**5**	**300**	**0**	**0**	**1.5M**		**Tornado (F1)**

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm

VIRGINIA, North

A National Weather Service meteorologist surveyed wind damage near Ada in Fauquier County, Virginia. A tornado touched down approximately 1.5 miles south of Ada in northern Fauquier County. The tornado was on the ground for approximately 5 miles. The tornado lifted 2 miles west of Marshall. The tornado downed and uprooted many trees along this path. Some stands of healthy trees were snapped off several feet above the base. Outbuildings were destroyed in a few locations. Approximately 15 structures were damaged due to the tornado, but much of this damage was due to falling trees. Direct wind damage to homes was limited to roof and siding damage. Despite the number of structures damaged, there were no injuries reported. This tornado has been rated F1 on the Fujita Scale.

Madison County

Madison	**30**	**1803EST**			**0**	**0**	**2K**		**Thunderstorm Wind (EG50)**

Trees were downed near the intersection of Duet and Hoover Roads.

Culpeper County

4 SE Culpeper	**30**	**1836EST**			**0**	**0**	**2K**		**Thunderstorm Wind (EG50)**

Trees were downed along Highland Road.

Culpeper County

Reva	**30**	**1836EST**			**0**	**0**	**2K**		**Thunderstorm Wind (EG50)**

Trees downed on Reva Road.

Culpeper County

5 NNW Culpeper	**30**	**1850EST**			**0**	**0**			**Funnel Cloud**

A report of a funnel cloud sighting near Old Stillhouse and Eggbornville Roads.

Culpeper County

5 NNW Culpeper	**30**	**1850EST**			**0**	**0**	**2K**		**Thunderstorm Wind (EG50)**

Trees were downed at Old Stillhouse Road and Eggbornville Road.

With the remnants of Hurricane Katrina moving along a beeline from Nashville, Tennessee, northeast towards Cleveland, Ohio, during the daytime on August 30, the mid-Atlantic was being impacted in a large but indirect way. While the main track of the storm was well to the west of the region, the winds in the lower levels of the atmosphere were becoming increasingly stronger, and with increasing amount of turning of the winds with height. While locations along and east of the Interstate 95 corridor received very little in the way of severe weather, further west, across portions of the Shenandoah Valley and Potomac highlands, there was a large outbreak of severe weather. The primary mode of severe weather was from damaging thunderstorm wind gusts, and short-lived tornadoes. All told, there were a total of 6 confirmed tornadoes just in the National Weather Service Sterling Virginia area of responsibility. Although significant damage occurred from the severe weather, no reports were received of any injuries or fatalities.

Rappahannock County

Sperryville	**30**	**1823EST**			**0**	**0**	**3K**		**Thunderstorm Wind (EG50)**

Trees down along Slate Mills Road.

WEST VIRGINIA, East

Berkeley County

Johnstown	**07**	**1630EST**			**0**	**0**	**3K**		**Thunderstorm Wind (EG50)**

Scattered trees were downed across the western portion of the county.

A weak frontal boundary remained stalled across the mid-Atlantic on August 7. Daytime heating conditions were sufficient to cause a few strong to severe thunderstorms to develop during the daylight hours. There were also a few reports of large hail in the higher terrain.